

Patent Abstracts of Japan

PUBLICATION NUMBER : 02045064
PUBLICATION DATE : 15-02-90

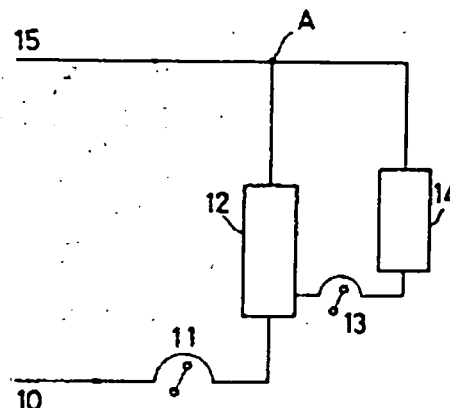
APPLICATION DATE : 02-08-88
APPLICATION NUMBER : 63193294

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INT.CL. : A61M 1/36

TITLE : DEVICE FOR REMOVING
INTERLEUKIN 2 RECEPTOR AND
BLOOD EXTRA-CORPOREAL
CIRCULATING DEVICE PROVIDED
WITH THIS DEVICE



ABSTRACT : PURPOSE: To inexpensively and effectively remove interleukin 2 receptor IL-2R from blood by adsorbing and fixing the monoclonal antibody of the IL-2R to a hollow yarn membrane and bringing the blood and/or plasma into contact with the hollow yarn membrane.

CONSTITUTION: The hollow yarn membrane which is a carrier to be adsorbed and fixed with the monoclonal antibody to the IL-2R may consist of various kinds of high polymers. Polypropylene and polyethylene are more preferable when the method of bonding to the monoclonal antibody and the bonding strength are taken into consideration. The device of removing the IL-2R from the blood and/or plasma is capable of allowing the whole blood to flow as it is and also of allowing only the plasma previously separated by a plasma separator to flow. The patient's blood is introduced from the inside of the body to the plasma separator 12 by a blood pump 11. The blood entering the plasma separator 12 is separated of the plasma component and is introduced by a plasma pump 13 into an IL-2R removing device 14. The plasma from which the IL-2R is removed is mixed with the concd. blood discharged from the plasma separator 12 at a point A and is returned from a blood return part 15 into the patient's body.

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